NETGEAR®

Connect with Innovation™

Universal WiFi Range Extender - Powerline PassThru Edition XWNB1601 Installation Guide

Support

Thank you for selecting NETGEAR products.

After installing your device, locate the serial number on the label of your product and use it to register your product at *https://my.netgear.com*.
You must register your product before you can use NETGEAR telephone support.
NETGEAR recommends registering your product through the NETGEAR website.

Phone (US only): 1-888-NETGEAR
Phone (Other Countries):
Visit *http://support.netgear.com/general/contact/default.aspx*.

NETGEAR recommends that you use only the official NETGEAR support resources.

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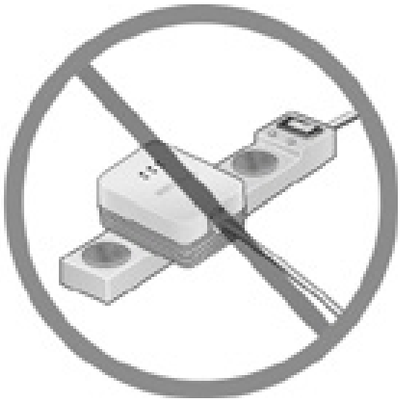
Package Contents

XAVN2001

XAV1601

Ethernet cables (2)

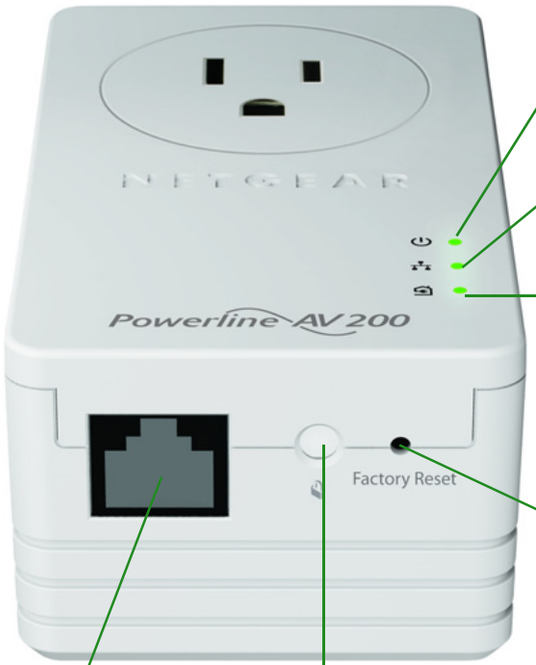
NETGEAR recommends that you do not plug a Powerline device directly into a powerstrip.



Hardware Features

Powerline AV 200 Adapter

(XAV1601)



Power LED

Ethernet LED

Powerline LED

Ethernet port

Security button

Powerline 200 WiFi Range Extender

(XAVN2001)

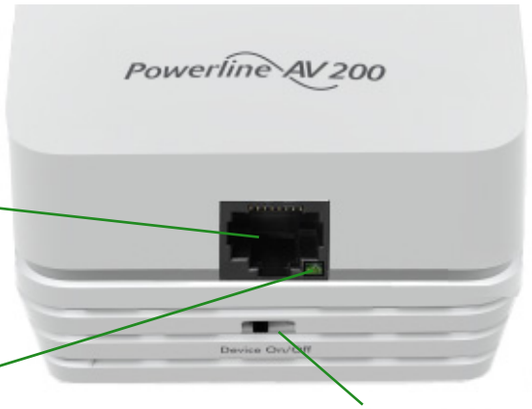
Power LED

Powerline LED

Wireless LED

Security button

Factory Reset button



Ethernet port

Ethernet LED

On/Off switch

LED Descriptions

The LEDs indicate the status of your Powerline devices.

- When you plug in the Powerline device, the Power LED lights and turns green.
- The Ethernet LED lights and turns green when you connect a powered-on Ethernet device to at least one Ethernet port. If the LED is off, there is no Ethernet connection.
- The Wireless LED lights and turns green when the wireless radio is on.
- The Powerline LED lights when the Powerline device detects at least one other compatible Powerline device.

  The Pick A Plug feature lets you pick the electrical outlet with the fastest link rate.

  - Green: Link rate > 80 Mbps (Fast)
  - Amber: Link rate > 50 and < 80 Mbps (Medium)
  - Red: Link rate < 50 Mbps (Slow)

Button Descriptions

The buttons on your Powerline devices let you do the following:

- Factory Reset button: Use the Factory Reset button to return your Powerline device to its default factory settings. Press the **Factory Reset** button for 2 seconds, and then release it.
- Power On/Off switch: Use the On/Off switch to turn the device on and off.
- Security button: The Security button has three functions:
  - Secure the Powerline network.
  - Create a WiFi access point on the XAVN2001 that has the same wireless settings as your router or gateway.
  - Automatically connect your wireless client to the XAVN2001 WiFi access point.

Install the Adapters and Surf the Web with WiFi

1. Secure your Powerline network.

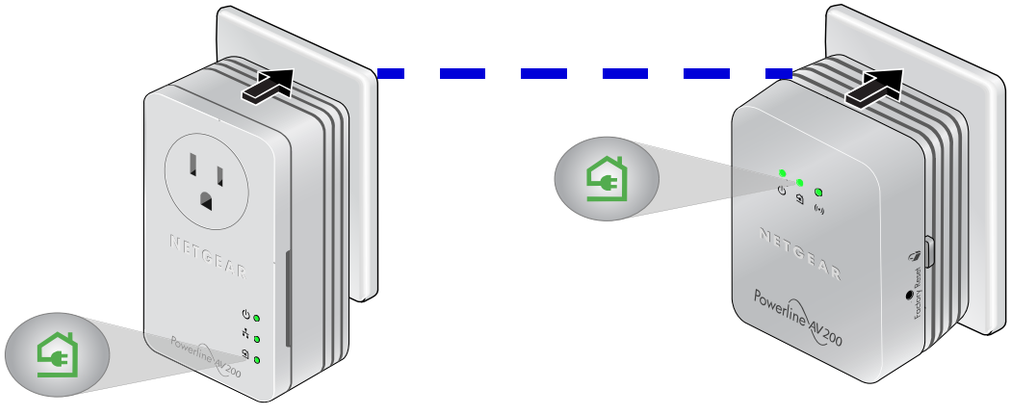
   a. Make sure that the Power LED is solid green on each Powerline device.

   b. On the XAV1601 adapter, press its **Security** button for 2 seconds, and then release the button. The Power LED blinks green while the adapter is setting up security.

   c. Within 2 minutes, go to the XAVN2001 extender and press its **Security** button for 2 seconds, and then release the button.

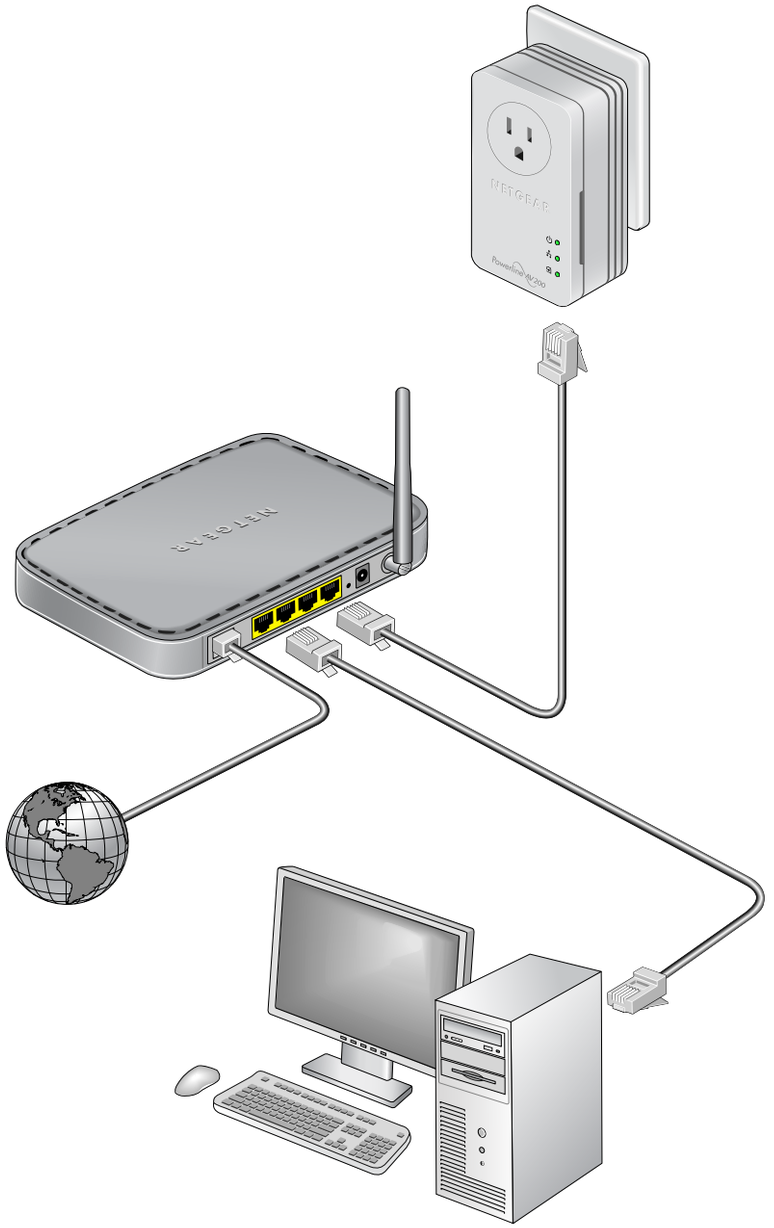
   d. After a few seconds, the security is set and the Power LED turns solid green.

The Powerline devices can communicate over the Powerline network in a secure way.



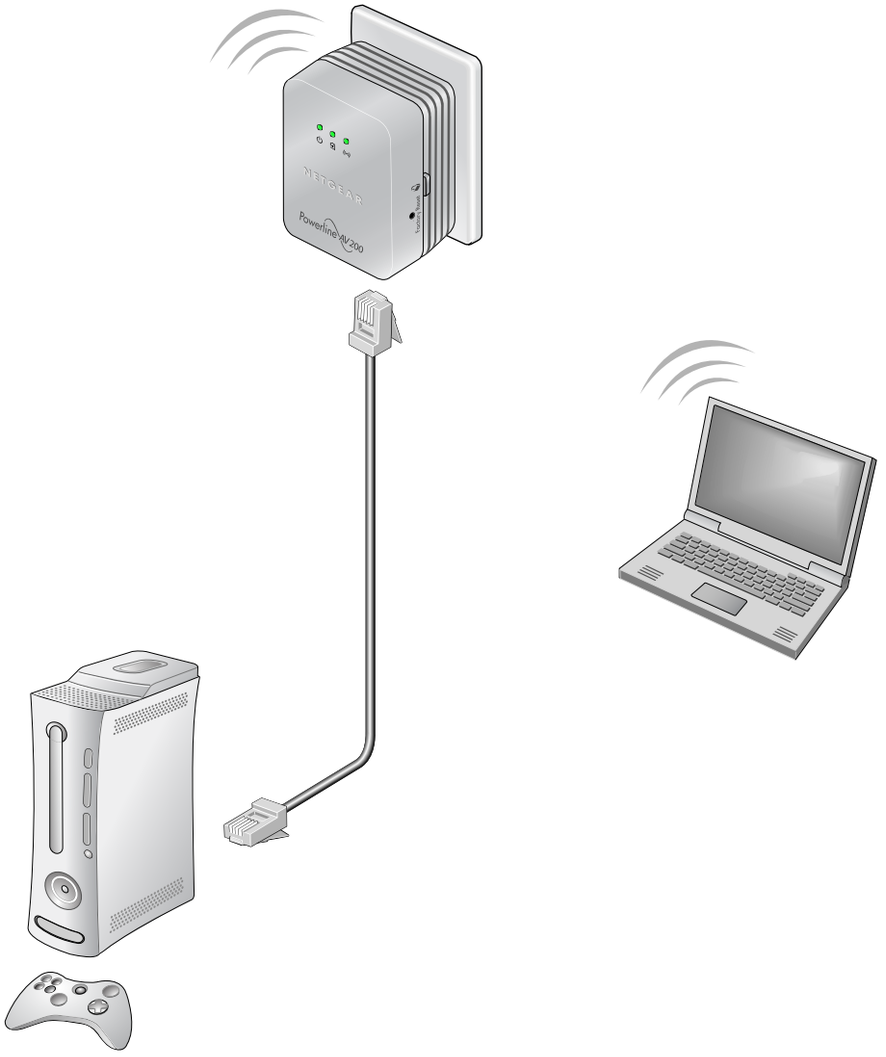
2. Plug the XAV1601 into a wall outlet near your router or gateway.
3. Connect the XAV1601 through the LAN port with an Ethernet cable.

If you want to share Internet access across your home, make sure to connect the XAV1601 to your Internet gateway with an Ethernet cable.



4. Plug the WiFi Range Extender (XAVN2001) into a wall outlet where you need WiFi coverage.

Note: *You can connect an Ethernet-based device (like a game console, set-top box, or Blu-ray player) to the Internet and the home network with the additional Ethernet port on the XAVN2001.*



5. Set up WiFi access on your XAVN2001 extender.

   You can set up WiFi access on your XAVN2001 extender in one of three ways:

   - **Option 1**: Use the WPS button on your wireless router or gateway to clone your existing wireless network.

     a. Press and hold the **Security** button on the XAVN2001 (about 10 seconds) and release it.

        The Wireless LED starts to blink.

     b. Press the **WPS button** on the wireless router or gateway.

        When the Wireless LED stops blinking, the cloning is finalized. The WiFi range extender (XAVN2001) re-creates a WiFi access point with the same SSID and password as your router or gateway.

        You now have two wireless networks with the same settings (SSID and password). When you are roaming in your house, your wireless client (laptop, tablet, or smartphone) switches from one network (router or gateway) to the other (XAVN2001), depending on the signal quality.

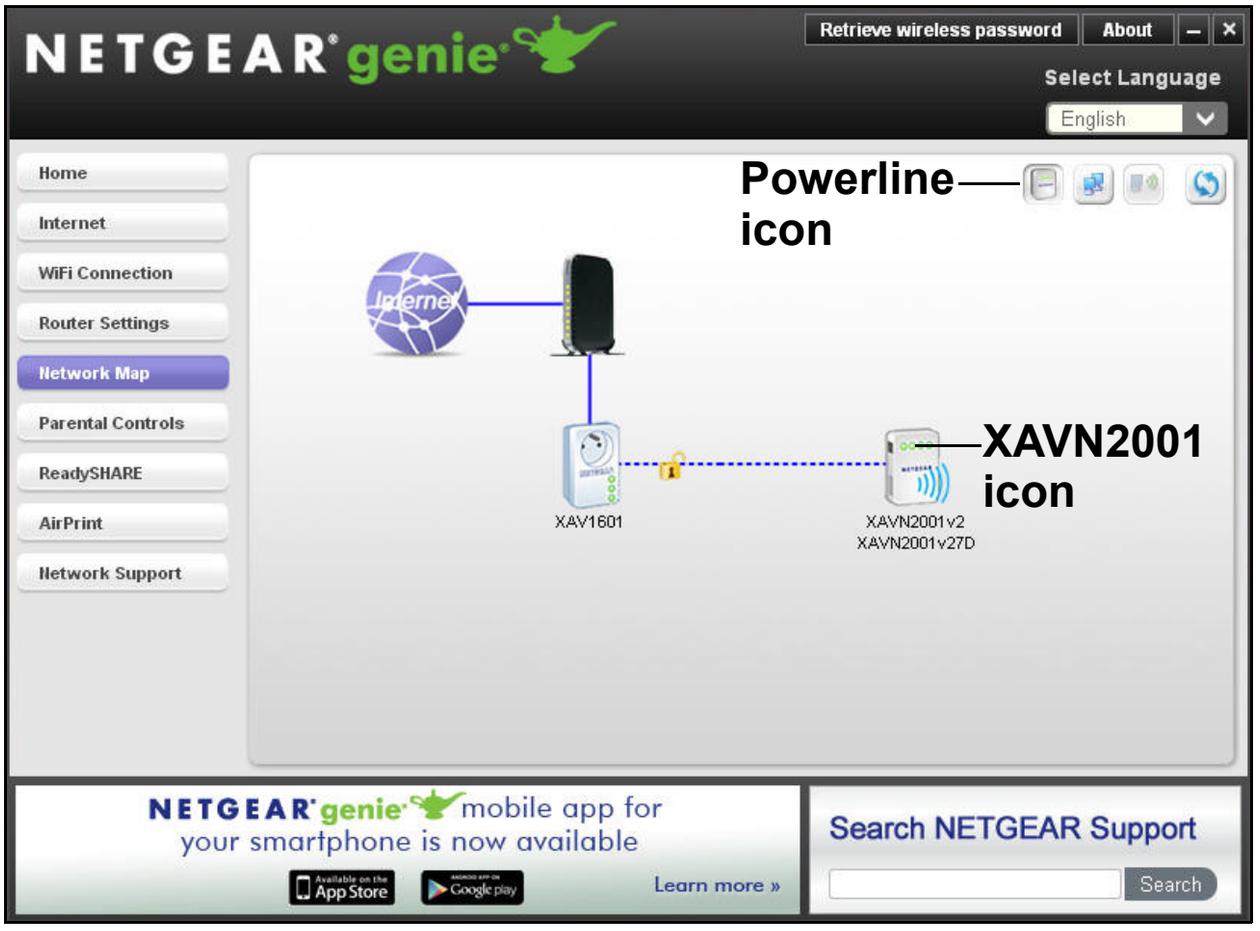
- **Option 2**: Use NETGEAR genie to manually configure the wireless settings of your XAVN2001 extender.

  a. Install NETGEAR genie. (See *Install NETGEAR genie* on page 19.)

  b. Temporarily connect your computer directly to the XAVN2001 through the Ethernet port.

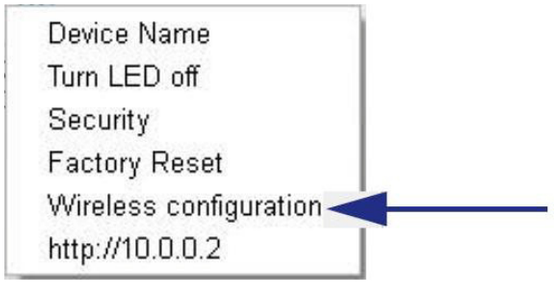
  c. Launch NETGEAR genie on your computer and click **Network Map** or select it from the menu.

d. Click the Powerline icon on the Network Map screen. The Powerline Utility screen displays:



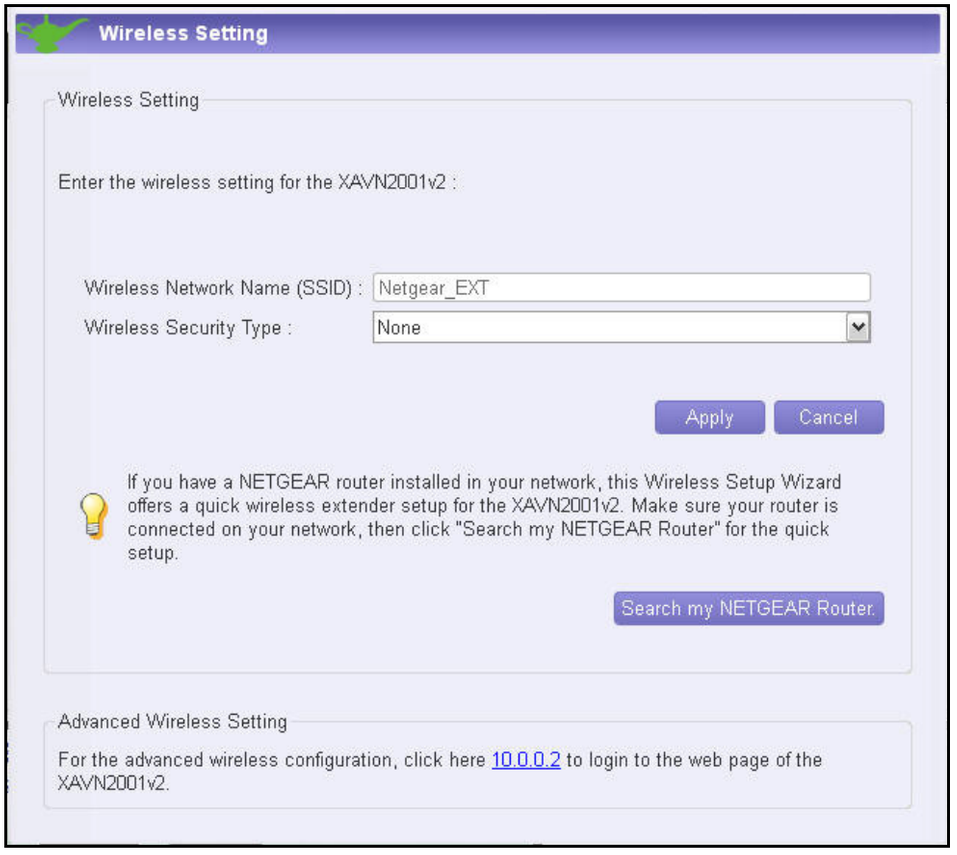
e. On the Powerline Utility screen, right-click the XAVN2001 icon.

f. From the pop-up menu that displays, select **Wireless configuration**.



g. Enter the following wireless settings:

- Wireless Network Name (SSID)
- Wireless Security Type
- Passphrase



If you want to clone your existing wireless network, enter the same wireless settings that your router or gateway uses. When you are roaming in your house, your wireless client (laptop, tablet, or smartphone) switches from one network (router or gateway) to the other (XAVN2001), depending on the signal quality.

If you want to create a new wireless network, enter new wireless settings. Creating a new wireless network lets you have a second network in another zone of your house.

h. Click **Apply** to save your changes.

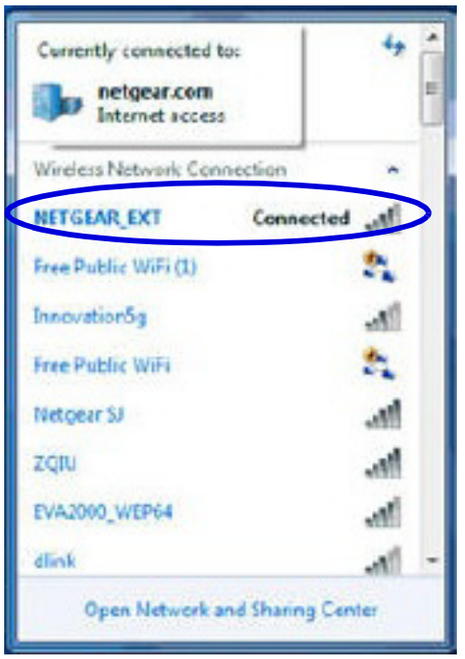
i. When you are finished with the wireless settings, disconnect the Ethernet cable from the XAVN2001.

Note: You can access advanced wireless settings by right-clicking the device icon and selecting the IP address on the pop-up menu. The login and password are **admin** and **password**.

- **Option 3**: Use the web browser setup guide to manually configure the wireless settings of your XAVN2001 extender.

  On your computer or wireless device (tablet, smartphone):

  a. Open the software that manages your wireless network connections, and connect to the XAVN2001 network.



Tip: The default wireless network name (SSID) of the XAVN2001 is NETGEAR_EXT. The default network key (wireless security password) is printed on the back of the XAVN2001.

b. On the same computer or wireless device, open a web browser window.

The browser takes you directly to the onscreen setup guide. If it does not, enter one of the following into the browser address bar:

www.mywifiext.net

www.netgearextender.net

c. When prompted to log in, enter:

- User name: **admin**
- Password: **password**

The web browser setup guide helps you configure the wireless settings of the XAVN2001.

If you want to clone your existing wireless network, enter the same wireless settings that your router or gateway uses.

If you want to create a new wireless network, enter new wireless settings. Creating a new wireless network lets you have a second network in another zone of your house.

Record the new wireless settings here:

Wireless network name (SSID)

_____

Network key (Passphrase)

_____

6. Connect your wireless client (laptop, tablet, or smartphone) to the XAVN2001 for Internet access.

   - **Option 1**: Use the WPS button on your wireless client to automatically connect to the XAVN2001 access point.

     a. Press the **Security** button on the XAVN2001 for 2 seconds and release it.

        The Wireless LED starts to blink.

     b. Press the **WPS button** on your wireless client for 2 seconds and release it.

        When the Wireless LED stops blinking, your wireless client is automatically connected to the XAVN2001 access point and you can surf the web.

   - **Option 2**: Manually connect to the XAVN2001 access point.

     On your computer or wireless client (tablet, smartphone):

     a. Open the software that manages your wireless network connections.

     b. Connect to the XAVN2001 wireless network (SSID).

     c. Enter the network key (passphrase).

        Your wireless device is now connected to the XAVN2001 access point and you can surf the web.

Install NETGEAR genie

Follow these instructions to download and install NETGEAR genie on your computer.

1. Type **http://support.netgear.com** into your browser address bar.
2. Click the **For Home** button.
3. In the search box, type **xavn2001**.
4. Download the NETGEAR genie that corresponds to your OS environment (Windows or Mac).
5. Run the file that you downloaded and follow the onscreen instructions to install NETGEAR genie.

Compatible NETGEAR Powerline Devices

Your Powerline devices can share a Powerline network with these compatible NETGEAR devices: XAVB1301, XAVB1401, XAVB2101, XAVB2602, XAVNB2001, XAVB5601, XAVB5101, XAVB5201, XAVB5602, XAUB2511, XAVB5004, XAVB1004, XWNB5602, and XWNB5201.

For a complete list of HomePlug AV certified devices, visit *www.homeplug.org/certified_products*.

Safety Information

AC input: 100–240V, 250 mA or 0.25A (max.)
Operating temperature: 0°C–40°C

User Manual

You can get the user manual online at
http://downloadcenter.netgear.com or through a link in the product's user interface.

Compliance

For the complete EU Declaration of Conformity, visit
http://support.netgear.com/app/answers/detail/a_id/11621/.

This symbol appears in accordance with the European Union Directive 2002/96 on the Waste Electrical and Electronic Equipment (the WEEE directive). If you dispose of this product in the European Union, treat and recycle it in accordance with your jurisdiction's laws that implement the WEEE directive.

For indoor use only in all EU countries and in Switzerland.

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